

**Notice of Allowability**

Application No.

10/692,091

Examiner

Dang T. Nguyen

Applicant(s)

HUNG ET AL.

Art Unit

2824

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 14 September 2005.
2. ☒ The allowed claim(s) is/are 1,3-9,11,14-18 and 20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

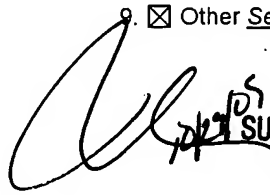
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other Search history.

  
RICHARD ELMS  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2112

***Response to Amendment***

1. This office action is in response to applicant's amendment received on 9/14 /05. Claims 1, 8, 11, and 17 have been amended. Claims 2, 10, 12, 13, and 19 have been canceled. Claims 1, 3-9, 11, 14-18, and 20 are pending on this application. Claim 1, 8 and 17 are independent claims.

***EXAMINER'S AMENDMENT***

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kevin Daffer on October 18, 2005.

The application has been amended as follows:

Claim 15, line 1 changes "10" To - - 8 - -

***Allowable Subject Matter***

3. Claims 1, 3-9, 11, 14-18, and 20 are allowed.

4. The following is an examiner's statement of reasons for allowance:

**With respect to claim 1**, the combination as claimed wherein at least the limitation of "the primary and secondary semiconductor memory devices each comprise a midpoint between outer lateral edges of each respective primary and secondary

semiconductor memory device through which a single axis extends substantially perpendicular to the first and second outside surfaces" is not disclosed, suggest, or rendered obvious by the prior art of record.

**With respect to claim 8**, the combination as claimed wherein at least the limitation of "the plurality of primary and secondary conductors are terminated at each respective end through pull-up resistors and output drivers connected to a reference supply; and wherein the power supply conductor comprises at least two laterally spaced coplanar power supply conductors, and wherein one power supply conductor is coupled between the reference supply and the pull-up resistors and output drivers, and wherein the other power supply conductor is coupled between the power supply and the primary and secondary SDRAMs" is not disclosed, suggest, or rendered obvious by the prior art of record.

**With respect to claim 17**, the combination as claimed wherein at least the limitation of "terminating the opposing first and second ends of the conductor with a pull-up resistor to a power supply having a voltage value dissimilar from a voltage value placed on the pair of packaged memory devices" is not disclosed, suggest, or rendered obvious by the prior art of record.

5. The prior art made of record and considered pertinent to the applicant's disclosure does not teach or suggest the claimed limitations. Ko and Bhakta et al., taken individually or in combination, do not teach the claimed invention of primary and secondary comprises a midpoint and the power supply conductor is coupled between

he reference supply and the pull-up resistors and output drivers, in combination with other limitations.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

#### ***Prior art***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ko et al.      Pub. No. US 2003/0048616A1      Pub. Date: Mar. 13, 2003

Bhakta et al.      Pub. No. US 2003/0169614 A1      Pub. Date: Sep. 11, 2003

#### ***Contact Information***

8. Any inquiry concerning this communication from the examiner should be directed to Dang Nguyen, who can be reached by telephone at (571) 272-1955. Normal contact times are M-F, 8:00 AM - 4:30 PM.

Upon an unsuccessful attempt to contact the examiner, the examiner's supervisor, Richard Elms, may be reached at (571) 272-1869.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist, whose telephone number is (703) 305-3900. The faxed phone number for organization where this application or

proceeding is assigned is (703) 872-9306.

Information regarding the Status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or [EBC@uspto.gov](mailto:EBC@uspto.gov).

Dang Nguyen 10/18/2005